



Bearings Manufacturers in India



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Ball Bearing

A ball bearing is a type of rolling-element bearing that uses balls to maintain the separation between the bearing races. The purpose of a ball bearing is to reduce rotational friction and support radial and axial loads.

Where are ball bearings used?

[Ball bearings](#) have been around for a long time and have been used in many applications over hundreds of years.

Arguably the most common type of bearing, ball bearings are used in a wide variety of products and applications. From hard drives to skateboards, [ball bearings](#) are designed to handle both thrust and radial loads. However, ball bearings are usually found in applications with smaller loads.

In order to serve all these functions, bearings make use of a relatively simple structure: a ball with internal and external smooth metal surfaces, to aid in rolling.

The ball itself carries the weight of the load—the force of the load's weight is what drives the bearing's rotation. However, not all loads put force on a bearing in the same manner. There are two different kinds of loading: radial and thrust.

A radial load, as in a pulley, simply puts weight on the bearing in a manner that causes the bearing to roll or rotate as a result of tension.

A thrust load is significantly different, and puts stress on the bearing in an entirely different way. If a bearing (think of a tire) is flipped on its side (think now of a tire swing) and subject to complete force at that angle (think of three children sitting on the tire swing), this is called thrust load. A bearing that is used to support a bar stool is an example of a bearing that is subject only to thrust load.